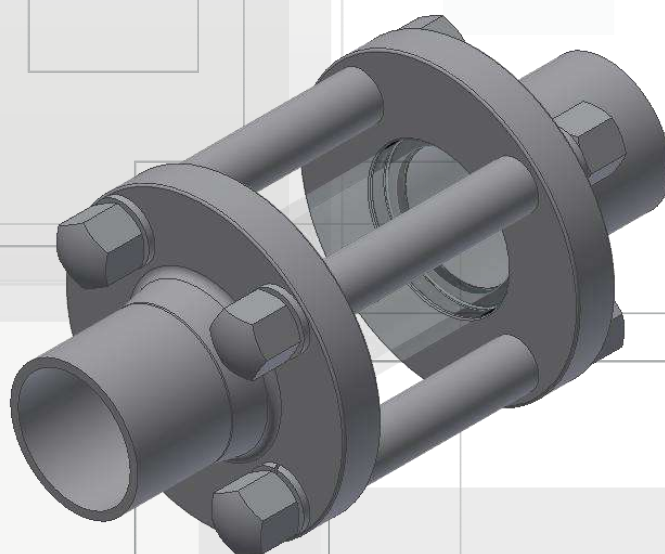


bio-plus® Linienschaugläser (Teilsicht & Vollsicht)

bio-plus® Line Sight Glasses (Partial View & Full View)



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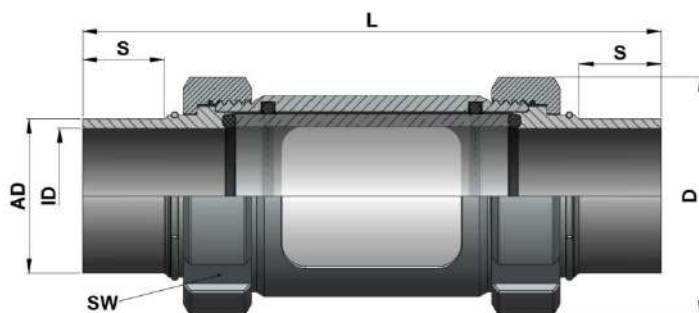
1 Technische Daten

Technical Data

Standard-Baugrößen	• DIN04 – DIN150 • ISO06 – ISO150 • OD$\frac{1}{4}$" – OD6"
Werkstoffe	Produktberührt: • 1.4435 BN2 (316L) • Sonderwerkstoffe wie z.B. 2.4602, Titan, 1.4539 etc. auf Anfrage • Schauglas: Borosilikatglas Nicht Produktberührt: • 1.4305 oder gleichwertig
Dichtungswerkstoffe	• EPDM • FEP (Silikonkern) / Silikon / FKM / FFKM • Sonderdichtwerkstoffe gem. Bestellschlüssel
Oberflächen	Produktberührte Oberflächen: • elektropoliert Ra < 0,6µm • andere Oberflächen gem. Bestellschlüssel Nicht produktberührte Oberflächen: • elektropoliert Ra > 1,6µm
Rückverfolgbarkeit	Alle produktberührten Teile markiert mit Artikelnummer, Werkstoff und Chargennummer
Medien	Gase und Flüssigkeiten
Betriebstemperatur	-20°C bis +160°C
Betriebsdruck	gemäss maximaler Druckangabe bei einzelnen Artikeln. Werte für 20°C (Hochdruck-Ausführung gemäss separater Tabelle)
Betriebstemperatur Dichtungswerkstoffe	• EPDM: -40°C bis +150°C, kurzzeitig bis +160°C • FEP / Silikon: -60°C bis +200°C, kurzzeitig bis +230°C • FKM: -20°C bis +200°C, kurzzeitig bis +230°C
Normen	Rohranschlussmaße (Schweissende): • DIN (DIN11866 Reihe A) • ISO (DIN11866 Reihe B) • OD (DIN11866 Reihe C) Rohranschlussmaße (Clamp Anschluss): • DIN (DIN32676 Reihe A) • ISO (DIN32676 Reihe B) • OD (DIN32676 Reihe C)
Zertifikate	Produktberührte Teile: • EN10204 / 3.1 • EN10204 / 3.2 (Glas) Produktberührende Dichtungen: • FDA-Konformität, USP-Class VI, TSE-frei

Standard sizes	• DIN04 – DIN150 • ISO06 – ISO150 • OD¼" –OD6"
Material	Medium contacted: • 1.4435 BN2 (316L) • Special Materials e.g. 2.4602, Titan, 1.4539 etc. acc. ordering key • Sight glass: Borosilicate Non medium contacted: • 1.4305 or equivalent
Gasket	• EPDM • FEP (Silicone Core) / Silicone / FKM / FFKM • Special seal materials acc. ordering key
Surface quality	Medium contacted surface: • electropolished Ra < 0,6µm • other qualities acc. ordering key Non medium contacted surface: • electropolished Ra > 1,6µm
Traceability	Product contacted material marked with article no., material and heat no.
Media	Gases and liquids
Operating temperature	-20°C to +160°C
Operating pressure	According to the maximum pressure specified for individual articles. Values for 20°C (High-pressure version according separate table)
Operating temperature gaskets	• EPDM: -40°C to +150°C, short time up +160°C • FEP / Silicone: -60°C to +200°C, short time up +230°C • FKM: -20°C to +200°C, short time up +230°C
Applicable standards	Pipe dimensions (weld-end): • DIN (DIN11866 Series A) • ISO (DIN11866 Series B) • OD (DIN11866 Series C) Pipe dimensions (clamp-end): • DIN (DIN32676 Series A) • ISO (DIN32676 Series B) • OD (DIN32676 Series C)
Certification	Medium contacted parts: • EN10204 / 3.1 • EN10204 / 3.2 (glass) Medium contacted seals: • FDA-conform, USP-Class VI, TSE-free

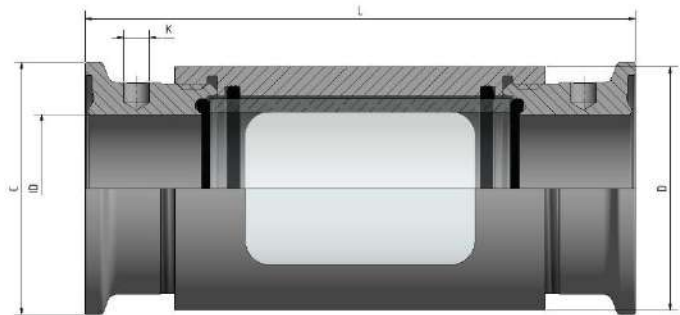
2 bio-plus® Linienschauglas mit Schweissende nach DIN11866 (Teilsicht) bio-plus® Line Sight Glass with weld-end acc. DIN11866 (Partial View)



	Größe Size	Artikel-Nr. Article-No.	AD [mm]	ID [mm]	L [mm]	S [mm]	SW [mm]	D [mm]	PN [bar]	Gewicht Weight [kg]
DIN Abmessung DIN Dimension	DIN04	RD.D04.BG0.35.0.C	6.00	4.00	91.60	18.00	19.00	21.70	20.00	0.08
	DIN06	RD.D06.BG0.35.0.C	8.00	6.00	93.00	18.00	19.00	21.90	20.00	0.08
	DIN08	RD.D08.BG0.35.0.C	10.00	8.00	94.00	18.00	22.00	24.50	20.00	0.09
	DIN10	RD.D10.BG0.35.0.C	13.00	10.00	92.40	18.00	27.00	30.50	20.00	0.15
	DIN15	RD.D15.BG0.35.0.C	19.00	16.00	106.50	18.00	32.00	36.50	12.00	0.15
	DIN20	RD.D20.BG0.35.0.C	23.00	20.00	106.50	18.00	42.00*	48.30	12.00	0.40
	DIN25	RD.D25.BG0.35.0.C	29.00	26.00	112.50	18.00	46.00*	52.00	12.00	0.50
	DIN32	RD.D32.BG0.35.0.C	35.00	32.00	130.50	18.00	56.00*	62.00	10.00	0.83
	DIN40	RD.D40.BG0.35.0.C	41.00	38.00	135.50	18.00	56.00*	62.00	10.00	0.68
ISO Abmessung ISO Dimension	DIN50	RD.D50.BG0.35.0.C	53.00	50.00	154.60	18.00	74.00	79.50	10.00	1.19
	ISO06	RD.N06.BG0.35.0.C	10.20	7.00	92.40	18.00	22.00	24.50	20.00	0.10
	ISO08	RD.N08.BG0.35.0.C	13.50	10.30	92.40	18.00	27.00	30.50	20.00	0.15
	ISO10	RD.N10.BG0.35.0.C	17.20	14.00	98.50	18.00	32.00	36.50	20.00	0.21
	ISO15	RD.N15.BG0.35.0.C	21.30	18.10	104.50	18.00	36.00	41.30	12.00	0.26
	ISO20	RD.N20.BG0.35.0.C	26.90	23.70	104.50	18.00	42.00*	48.30	12.00	0.36
	ISO25	RD.N25.BG0.35.0.C	33.70	29.70	126.50	18.00	46.00*	52.00	12.00	0.50
	ISO32	RD.N32.BG0.35.0.C	42.40	38.40	135.50	18.00	56.00*	62.00	10.00	0.72
	ISO40	RD.N40.BG0.35.0.C	48.30	44.30	145.50	18.00	70.00*	76.00	10.00	0.99
OD Abmessung OD Dimension	ISO50	RD.N50.BG0.35.0.C	60.30	56.30	165.50	18.00	82.00	88.00	8.00	1.52
	OD1/4"	RD.K02.BG0.35.0.C	6.35	4.57	91.40	18.00	19.00	21.90	20.00	0.08
	OD3/8"	RD.K03.BG0.35.0.C	9.53	7.75	94.00	18.00	22.00	24.50	20.00	0.09
	OD1/2"	RD.K05.BG0.35.0.C	12.70	9.40	92.40	18.00	27.00	30.50	20.00	0.15
	OD3/4"	RD.K07.BG0.35.0.C	19.05	15.75	120.30	25.40	32.00	36.50	12.00	0.21
	OD1"	RD.K10.BG0.35.0.C	25.40	22.10	120.30	25.40	42.00*	48.30	12.00	0.39
	OD1 1/2"	RD.K15.BG0.35.0.C	38.10	34.80	144.20	25.40	56.00*	62.00	10.00	0.78
	OD2"	RD.K20.BG0.35.0.C	50.80	47.50	153.30	25.40	74.00	79.50	10.00	1.31
	OD2 1/2"	RD.K25.BG0.35.0.C	63.50	60.20	178.50	25.40	82.00*	88.00	8.00	1.44

*für Hakenschlüssel

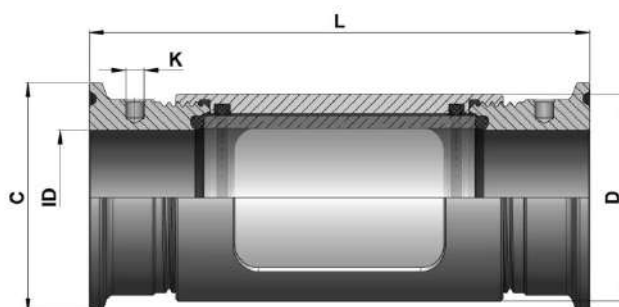
3 bio-plus® Linienschauglas mit Clamp Anschluss nach DIN11864 (Teilsicht) bio-plus® Line Sight Glass with clamp-end acc. DIN11864 (Partial View)



	Größe Size	Artikel-Nr. Article-No.	C [mm]	ID [mm]	L [mm]	K [mm]	D [mm]		PN [bar]	Gewicht Weight [kg]
DIN Abmessung DIN Dimension	DIN10	SA.D10.64A.BG0.35.0.C	34.00	10.00	76.00	21.00*	25.00		20.00	0.21
	DIN15	SA.D15.64A.BG0.35.0.C	34.00	16.00	87.00	19.00*	29.00		12.00	0.17
	DIN20	SA.D20.64A.BG0.35.0.C	50.50	20.00	91.00	29.00*	39.00		12.00	0.45
	DIN25	SA.D25.64A.BG0.35.0.C	50.50	26.00	98.00	5.10	45.50		12.00	0.60
	DIN32	SA.D32.64A.BG0.35.0.C	50.50	32.00	110.00	5.10	50.90		10.00	0.55
	DIN40	SA.D40.64A.BG0.35.0.C	64.00	38.00	122.00	5.10	56.00		10.00	0.83
	DIN50	SA.D50.64A.BG0.35.0.C	77.50	50.00	140.00	6.10	70.00		10.00	1.15
	DIN65	SA.D65.64A.BG0.35.0.C	91.00	66.00	183.60	6.10	95.00		8.00	3.23
ISO Abmessung ISO Dimension	ISO08	SA.N08.64A.BG0.35.0.C	34.00	10.30	76.00	16.00*	25.00		20.00	0.18
	ISO10	SA.N10.64A.BG0.35.0.C	34.00	14.00	79.30	19.00*	29.00		20.00	0.19
	ISO15	SA.N15.64A.BG0.35.0.C	34.00	18.10	97.00	22.00*	35.00		12.00	0.29
	ISO20	SA.N20.64A.BG0.35.0.C	50.50	23.70	90.00	5.10	39.00		12.00	0.41
	ISO25	SA.N25.64A.BG0.35.0.C	50.50	29.70	110.00	5.10	48.60		12.00	0.58
	ISO32	SA.N32.64A.BG0.35.0.C	64.00	38.40	128.00	5.10	56.00		10.00	0.89
	ISO40	SA.N40.64A.BG0.35.0.C	64.00	44.30	130.00	6.10	70.00		10.00	0.61
	ISO50	SA.N50.64A.BG0.35.0.C	91.00	56.30	187.00	6.10	78.00		8.00	2.13
	ISO65	SA.N65.64A.BG0.35.0.C	106.00	72.90	175.00	8.10	104.00		8.00	2.65
OD Abmessung OD Dimension	OD1½"	SA.K05.64A.BG0.35.0.C	34.00	9.40	76.00	21.00*	25.00		20.00	0.21
	OD¾"	SA.K07.64A.BG0.35.0.C	34.00	15.75	87.00	21.00*	29.00		12.00	0.18
	OD1"	SA.K10.64A.BG0.35.0.C	50.50	22.10	91.00	5.10	39.00		12.00	0.45
	OD1½"	SA.K15.64A.BG0.35.0.C	64.00	34.80	123.00	41.00*	52.00		10.00	0.72
	OD2"	SA.K20.64A.BG0.35.0.C	77.50	47.50	129.00	6.10	70.00		10.00	1.21
	OD2½"	SA.K25.64A.BG0.35.0.C	91.00	60.20	151.00	6.10	95.00		8.00	2.78

*für Gabelschlüssel

4 bio-plus® Linienschauglas mit Clamp Anschluss nach DIN32676 (Teilsicht) bio-plus® Line Sight Glass with clamp-end acc. DIN32676 (Partial View)

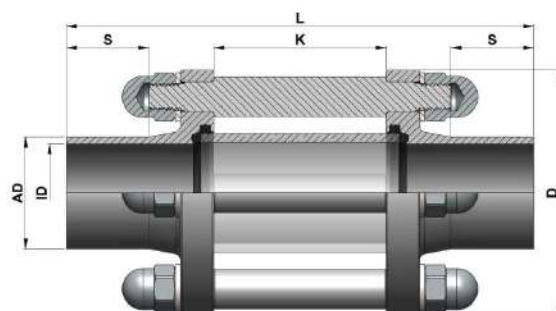
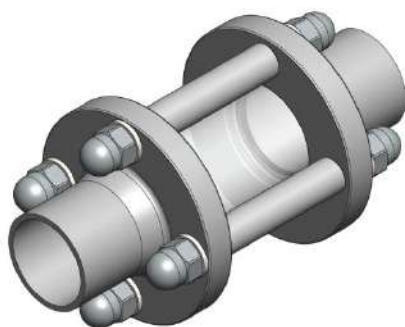


	Größe Size	Artikel-Nr. Article-No.	C [mm]	ID [mm]	L [mm]	K [mm]	D [mm]		PN [bar]	Gewicht Weight [kg]
DIN Abmessung DIN Dimension	DIN04	SA.D04.BG0.35.0.C	25.00	4.00	68.00	17.00*	19.05		20.00	0.13
	DIN06	SA.D06.BG0.35.0.C	25.00	6.00	73.00	17.00*	19.05		20.00	0.12
	DIN08	SA.D08.BG0.35.0.C	25.00	8.00	73.00	17.00*	21.00		20.00	0.13
	DIN10	SA.D10.BG0.35.0.C	34.00	10.00	76.00	21.00*	25.00		20.00	0.21
	DIN15	SA.D15.BG0.35.0.C	34.00	16.00	87.00	19.00*	29.00		12.00	0.17
	DIN20	SA.D20.BG0.35.0.C	34.00	20.00	91.00	29.00*	39.00		12.00	0.34
	DIN25	SA.D25.BG0.35.0.C	50.50	26.00	98.00	5.10	45.50		12.00	0.60
	DIN32	SA.D32.BG0.35.0.C	50.50	32.00	110.00	5.10	50.90		10.00	0.61
	DIN40	SA.D40.BG0.35.0.C	50.50	38.00	132.00	5.10	56.00		10.00	0.72
	DIN50	SA.D50.BG0.35.0.C	64.00	50.00	140.00	6.10	70.00		10.00	0.91
	DIN65	SA.D65.BG0.35.0.C	91.00	66.00	154.60	6.10	95.00		8.00	2.65
ISO Abmessung ISO Dimension	ISO06	SA.N06.BG0.35.0.C	25.00	7.00	71.00	16.00*	21.00		20.00	0.12
	ISO08	SA.N08.BG0.35.0.C	25.00	10.30	76.00	16.00*	25.00		20.00	0.15
	ISO10	SA.N10.BG0.35.0.C	25.00	14.00	79.30	19.00*	29.00		20.00	0.18
	ISO15	SA.N15.BG0.35.0.C	50.50	18.10	90.00	4.10	35.00		12.00	0.44
	ISO20	SA.N20.BG0.35.0.C	50.50	23.70	90.00	5.10	39.00		12.00	0.41
	ISO25	SA.N25.BG0.35.0.C	50.50	29.70	110.00	5.10	48.60		12.00	0.59
	ISO32	SA.N32.BG0.35.0.C	64.00	38.40	128.00	5.10	56.00		10.00	0.90
	ISO40	SA.N40.BG0.35.0.C	64.00	44.30	130.00	6.10	70.00		10.00	0.63
	ISO50	SA.N50.BG0.35.0.C	77.50	56.30	187.00	6.10	78.00		8.00	1.95
	ISO65	SA.N65.BG0.35.0.C	91.00	72.90	175.00	8.10	104.00		8.00	2.65
OD Abmessung OD Dimension	OD 1/4"	SA.K02.BG0.35.0.C	25.00	4.57	73.00	17.00*	19.05		20.00	0.13
	OD 3/8"	SA.K03.BG0.35.0.C	25.00	7.75	73.00	17.00*	21.00		20.00	0.13
	OD 1/2"	SA.K05.BG0.35.0.C	25.00	9.40	76.00	17.00*	25.00		20.00	0.16
	OD 3/4"	SA.K07.BG0.35.0.C	25.00	15.75	87.00	19.00*	29.00		12.00	0.15
	OD 1"	SA.K10.BG0.35.0.C	50.50	22.10	91.00	5.10	39.00		12.00	0.44
	OD 1 1/2"	SA.K15.BG0.35.0.C	50.50	34.80	119.00	41.00*	52.00		10.00	0.58
	OD 2"	SA.K20.BG0.35.0.C	64.00	47.50	129.00	5.10	70.00		10.00	1.06
	OD 2 1/2"	SA.K25.BG0.35.0.C	77.50	60.20	151.00	6.10	95.00		8.00	2.53
	OD 3"	SA.K30.BG0.35.0.C	91.00	72.90	175.00	8.10	104.00		8.00	2.61
	OD 4"	SA.K40.BG0.35.0.C	119.00	97.38	200.00	8.10	127.00		8.00	4.06

*für Gabelschlüssel

5 bio-plus® Linienschauglas mit Schweissende nach DIN11866 (Vollsicht)

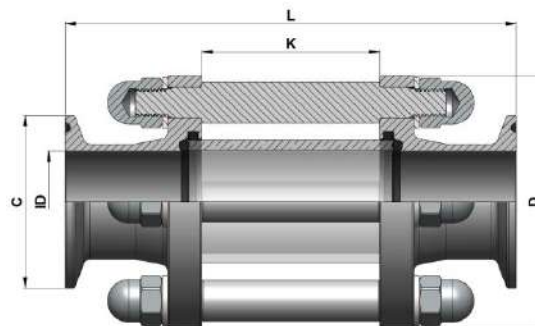
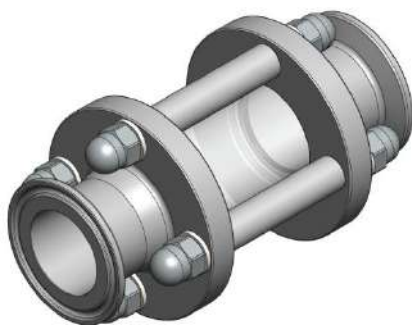
bio-plus® Line Sight Glass with weld-end acc. DIN11866 (Full View)



	Größe Size	Artikel-Nr. Article-No.	AD [mm]	ID [mm]	L [mm]	S [mm]	D [mm]	K [mm]	PN [bar]	Gewicht Weight [kg]
DIN Abmessung DIN Dimension	DIN04	HA.D04.BG0.35.0.C	6.00	4.00	93.00	22.00	46.00	22.00	20.00	0.30
	DIN06	HA.D06.BG0.35.0.C	8.00	6.00	95.00	17.00	59.00	23.00	20.00	0.50
	DIN08	HA.D08.BG0.35.0.C	10.00	8.00	94.00	22.00	50.00	23.00	20.00	0.40
	DIN10	HA.D10.BG0.35.0.C	13.00	10.00	98.00	22.00	54.00	23.00	20.00	0.50
	DIN15	HA.D15.BG0.35.0.C	19.00	16.00	112.00	22.00	59.00	33.00	12.00	0.60
	DIN20	HA.D20.BG0.35.0.C	23.00	20.00	112.00	22.00	62.00	33.00	12.00	0.65
	DIN25	HA.D25.BG0.35.0.C	29.00	26.00	112.00	20.00	69.00	33.00	12.00	0.70
	DIN32	HA.D32.BG0.35.0.C	35.00	32.00	141.00	20.00	74.00	52.00	10.00	0.90
	DIN40	HA.D40.BG0.35.0.C	41.00	38.00	141.00	25.00	82.00	52.00	10.00	1.00
	DIN50	HA.D50.BG0.35.0.C	53.00	50.00	157.00	24.00	110.00	68.00	10.00	1.80
	DIN65	HA.D65.BG0.35.0.C	70.00	66.00	196.00	25.00	125.00	100.00	8.00	2.70
	DIN80	HA.D80.BG0.35.0.C	85.00	81.00	190.00	25.00	136.00	100.00	8.00	2.80
	DIN100	HA.D100.BG0.35.0.C	104.00	100.00	228.00	25.00	160.00	131.00	8.00	3.50
	DIN125	HA.D125.BG0.35.0.C	129.00	124.00	235.00	25.00	184.00	135.00	8.00	6.70
	DIN150	HA.D150.BG0.35.0.C	154.00	150.00	270.00	38.00	210.00	135.00	8.00	8.10
ISO Abmessung ISO Dimension	ISO06	HA.N06.BG0.35.0.C	10.20	7.00	94.00	22.00	50.00	23.00	20.00	0.40
	ISO08	HA.N08.BG0.35.0.C	13.50	10.30	98.00	22.00	54.00	23.00	20.00	0.45
	ISO10	HA.N10.BG0.35.0.C	17.20	14.00	105.00	22.00	59.00	26.00	20.00	0.60
	ISO15	HA.N15.BG0.35.0.C	21.30	18.10	112.00	22.00	62.00	33.00	12.00	0.65
	ISO20	HA.N20.BG0.35.0.C	26.90	23.70	112.00	22.00	69.00	33.00	12.00	0.75
	ISO25	HA.N25.BG0.35.0.C	33.70	29.70	141.00	25.00	74.00	52.00	12.00	0.90
	ISO32	HA.N32.BG0.35.0.C	42.40	38.40	141.00	25.00	82.00	52.00	10.00	1.00
	ISO40	HA.N40.BG0.35.0.C	48.30	44.30	151.00	25.00	90.00	62.00	10.00	1.20
	ISO50	HA.N50.BG0.35.0.C	60.30	56.30	174.00	25.00	103.00	85.00	8.00	1.50
	ISO65	HA.N65.BG0.35.0.C	76.10	72.10	196.00	25.00	125.00	100.00	8.00	2.80
	ISO80	HA.N80.BG0.35.0.C	88.90	84.30	190.00	25.00	138.00	100.00	8.00	2.70
	ISO100	HA.N100.BG0.35.0.C	114.30	109.70	249.00	30.00	174.00	135.00	8.00	6.20
	ISO125	HA.N125.BG0.35.0.C	139.70	134.50	219.00	30.00	198.00	119.00	8.00	4.30
	ISO150	HA.N150.BG0.35.0.C	168.30	163.10	263.00	30.00	232.00	135.00	8.00	8.70
OD Abmessung OD Dimension	OD1¼"	HA.K02.BG0.35.0.C	6.35	4.57	93.00	22.00	46.00	23.00	20.00	0.30
	OD3⁄8"	HA.K03.BG0.35.0.C	9.53	7.75	94.00	22.00	50.00	23.00	20.00	0.40
	OD½"	HA.K05.BG0.35.0.C	12.70	9.40	98.00	22.00	54.00	23.00	20.00	0.45
	OD¾"	HA.K07.BG0.35.0.C	19.05	15.75	112.00	22.00	59.00	33.00	12.00	0.60
	OD1"	HA.K10.BG0.35.0.C	25.40	22.10	122.00	25.00	74.00	33.00	12.00	0.85
	OD1½"	HA.K15.BG0.35.0.C	38.10	34.80	141.00	25.00	74.00	52.00	10.00	0.90
	OD2"	HA.K20.BG0.35.0.C	50.80	47.50	151.00	25.00	90.00	62.00	10.00	1.20
	OD2½"	HA.K25.BG0.35.0.C	63.50	60.20	164.00	25.00	125.00	68.00	8.00	2.30
	OD3"	HA.K30.BG0.35.0.C	76.20	72.90	196.00	25.00	125.00	100.00	8.00	2.50
	OD4"	HA.K40.BG0.35.0.C	101.60	97.38	235.00	25.00	160.00	119.00	8.00	3.80
	OD6"	HA.K60.BG0.35.0.C	152.40	146.86	270.00	38.00	210.00	135.00	8.00	8.00

6 bio-plus® Linienschauglas mit Clamp Anschluss nach DIN32676 (Vollsicht)

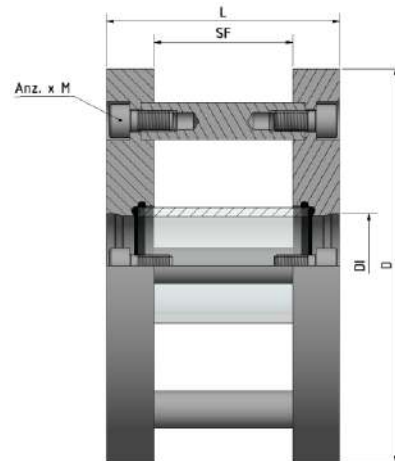
bio-plus® Line Sight Glass with clamp-end acc. DIN32676 (Full View)



	Größe Size	Artikel-Nr. Article-No.	C [mm]	ID [mm]	L [mm]	D [mm]	K [mm]		PN [bar]	Gewicht Weight [kg]
DIN Abmessung DIN Dimension	DIN04	HP.D04.BG0.35.0.C	25.00	4.00	90.00	46.00	22.00		20.00	0.32
	DIN06	HP.D06.BG0.35.0.C	25.00	6.00	91.00	50.00	23.00		20.00	0.41
	DIN08	HP.D08.BG0.35.0.C	25.00	8.00	91.00	50.00	23.00		20.00	0.41
	DIN10	HP.D10.BG0.35.0.C	34.00	10.00	91.00	54.00	23.00		20.00	0.48
	DIN15	HP.D15.BG0.35.0.C	34.00	16.00	105.00	59.00	33.00		12.00	0.63
	DIN20	HP.D20.BG0.35.0.C	34.00	20.00	105.00	62.00	33.00		12.00	0.65
	DIN25	HP.D25.BG0.35.0.C	50.50	26.00	105.00	69.00	33.00		12.00	0.79
	DIN32	HP.D32.BG0.35.0.C	50.50	32.00	124.00	74.00	52.00		10.00	0.92
	DIN40	HP.D40.BG0.35.0.C	50.50	38.00	124.00	82.00	52.00		10.00	1.01
	DIN50	HP.D50.BG0.35.0.C	64.00	50.00	140.00	103.00	68.00		10.00	1.51
	DIN65	HP.D65.BG0.35.0.C	91.00	66.00	175.00	125.00	100.00		8.00	3.03
	DIN80	HP.D80.BG0.35.0.C								
	DIN100	HP.D100.BG0.35.0.C								
ISO Abmessung ISO Dimension	ISO06	HP.N06.BG0.35.0.C	25.00	7.00	91.00	50.00	23.00		20.00	0.40
	ISO08	HP.N08.BG0.35.0.C	25.00	10.30	95.00	59.00	23.00		20.00	0.67
	ISO10	HP.N10.BG0.35.0.C	25.00	14.00	90.60	59.00	26.00		20.00	0.62
	ISO15	HP.N15.BG0.35.0.C	50.50	18.10	107.00	70.00	33.00		12.00	1.05
	ISO20	HP.N20.BG0.35.0.C	50.50	23.70	112.00	74.00	33.00		12.00	1.15
	ISO25	HP.N25.BG0.35.0.C	50.50	29.70	124.00	74.00	52.00		12.00	0.96
	ISO32	HP.N32.BG0.35.0.C	64.00	38.40	124.00	82.00	52.00		10.00	1.03
	ISO40	HP.N40.BG0.35.0.C	64.00	44.30	141.00	88.00	62.00		10.00	1.25
	ISO50	HP.N50.BG0.35.0.C	77.50	56.30	176.00	125.00	85.00		8.00	2.92
	ISO65	HP.N65.BG0.35.0.C	91.00	72.10	176.00	125.00	100.00		8.00	2.84
	ISO80	HP.N80.BG0.35.0.C	106.00	84.30	176.00	138.00	100.00		8.00	2.81
	ISO100	HP.N100.BG0.35.0.C	130.00	109.7	225.00	174.00	135.00		8.00	6.24
OD Abmessung OD Dimension	OD 1/4"	HP.K02.BG0.35.0.C	25.00	4.57	90.00	46.00	22.00		20.00	0.32
	OD 3/4"	HP.K03.BG0.35.0.C	25.00	7.75	91.00	50.00	23.00		20.00	0.40
	OD 1/2"	HP.K05.BG0.35.0.C	25.00	9.40	95.00	59.00	23.00		20.00	0.77
	OD 3/4"	HP.K07.BG0.35.0.C	25.00	15.75	105.00	59.00	33.00		12.00	0.74
	OD 1"	HP.K10.BG0.35.0.C	50.50	22.10	101.00	74.00	33.00		12.00	1.12
	OD 1 1/2"	HP.K15.BG0.35.0.C	50.50	34.80	120.00	74.00	52.00		10.00	1.11
	OD 2"	HP.K20.BG0.35.0.C	64.00	47.50	148.00	102.00	62.00		10.00	1.73
	OD 2 1/2"	HP.K25.BG0.35.0.C	77.50	60.20	152.00	125.00	68.00		8.00	2.39
	OD 3"	HP.K30.BG0.35.0.C	91.00	72.90	184.00	136.00	100.00		8.00	3.11
	OD 4"	HP.K40.BG0.35.0.C	119.00	97.38	206.00	160.00	119.00		8.00	4.37

7 bio-plus® Linienschauglas mit Flansch nach EN1092 (Vollsicht)

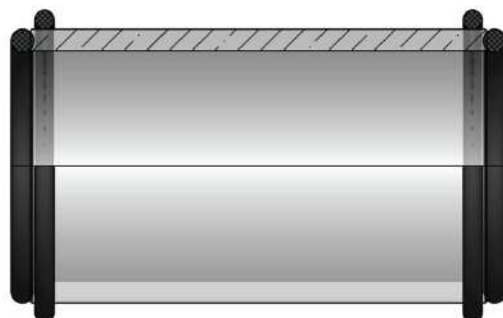
bio-plus® Line Sight Glass with flange acc. EN1092 (Full View)



	Größe Size	Artikel-Nr. Article-No.	D [mm]	ID [mm]	L [mm]	SF [mm]	Anz. x M [Stk. x M]	PN [bar]	Gewicht Weight [kg]
DIN Abmessung DIN Dimension	DIN15	FSG.D15.EN1092.BG0.04.0.B	95.00	16.00	95.40	63.40	8xM6x12	12.00	1.75
	DIN20	FSG.D20.EN1092.BG0.04.0.B	105.00	20.40	101.00	65.00	8xM6x12	12.00	2.36
	DIN25	FSG.D25.EN1092.BG0.04.0.B	115.00	24.80	101.00	65.00	8xM6x12	12.00	2.80
	DIN32	FSG.D32.EN1092.BG0.04.0.B	140.00	32.80	110.00	74.00	8xM8x16	10.00	4.09
	DIN40	FSG.D40.EN1092.BG0.04.0.B	150.00	39.30	110.00	74.00	8xM8x16	10.00	4.53
	DIN50	FSG.D50.EN1092.BG0.04.0.B	165.00	50.00	131.00	95.00	8xM10x16	10.00	5.75
	DIN65	FSG.D65.EN1092.BG0.04.0.B	185.00	65.00	131.00	95.00	8xM10x16	8.00	6.62
	DIN80	FSG.D80.EN1092.BG0.04.0.B	200.00	80.00	135.00	95.00	8xM10x16	8.00	8.16
	DIN100	FSG.D100.EN1092.BG0.04.0.B	220.00	100.00	166.00	126.00	8xM10x20	8.00	9.41
	DIN125	FSG.D125.EN1092.BG0.04.0.B	250.00	125.00	175.00	131.00	8xM12x25	7.00	12.83
	DIN150	FSG.D150.EN1092.BG0.04.0.B	285.00	150.00	175.00	131.00	8xM12x25	6.00	15.63
	DIN200	FSG.D200.EN1092.BG0.04.0.B	340.00	200.00	179.00	131.00	12xM12x25	6.00	21.71
ISO Abmessung ISO Dimension	ISO10	FSG.N10.EN1092.BG0.04.0.B	90.00	13.20	95.40	63.40	8xM6x12	20.00	1.58
	ISO15	FSG.N15.EN1092.BG0.04.0.B	95.00	17.30	94.90	62.90	8xM6x12	12.00	1.74
	ISO20	FSG.N20.EN1092.BG0.04.0.B		22.30			8xM6x12	12.00	
	ISO25	FSG.N25.EN1092.BG0.04.0.B	115.00	28.50	99.00	63.00	8xM6x12	12.00	2.74
	ISO32	FSG.N32.EN1092.BG0.04.0.B							
	ISO40	FSG.N40.EN1092.BG0.04.0.B	150.00	43.10	110.00	74.00	8xM8x16	10.00	4.53
	ISO50	FSG.N50.EN1092.BG0.04.0.B							
	ISO65	FSG.N65.EN1092.BG0.04.0.B							
	ISO85	FSG.N80.EN1092.BG0.04.0.B							
	ISO100	FSG.N100.EN1092.BG0.04.0.B							
	ISO125	FSG.N125.EN1092.BG0.04.0.B							
	ISO150	FSG.N150.EN1092.BG0.04.0.B							
	ISO200	FSG.N200.EN1092.BG0.04.0.B							

AUF ANFRAGE

8 bio-plus® Ersatzteilset* zu Linienschauglas bio-plus® Spare Part Set* to Line Sight Glass

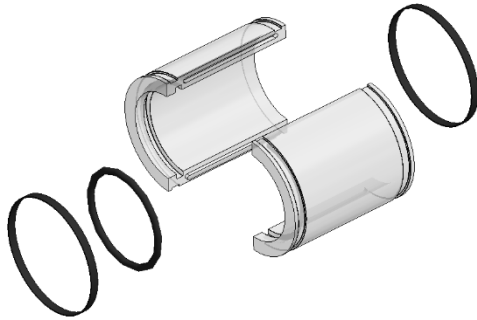


	Größe Size	Artikel-Nr. EPDM Article-No. EPDM	Artikel-Nr. FEP / Silikonkern Article-No. FEP / Silicone Core	Artikel-Nr. FKM Article-No. FKM	Artikel-Nr. EPDM / EN1092 Article-No. EPDM / EN1092
DIN Abmessung DIN Dimension	DIN04	03.D04.BG0.0	03.D04.BG0.3	03.D04.BG0.2	03.D04.EN1092.BG0.0
	DIN06	03.D06.BG0.0	03.D06.BG0.3	03.D06.BG0.2	03.D06.EN1092.BG0.0
	DIN08	03.D08.BG0.0	03.D08.BG0.3	03.D08.BG0.2	03.D08.EN1092.BG0.0
	DIN10	03.D10.BG0.0	03.D10.BG0.3	03.D10.BG0.2	03.D10.EN1092.BG0.0
	DIN15	03.D15.BG0.0	03.D15.BG0.3	03.D15.BG0.2	03.D15.EN1092.BG0.0
	DIN20	03.D20.BG0.0	03.D20.BG0.3	03.D20.BG0.2	03.D20.EN1092.BG0.0
	DIN25	03.D25.BG0.0	03.D25.BG0.3	03.D25.BG0.2	03.D25.EN1092.BG0.0
	DIN32	03.D32.BG0.0	03.D32.BG0.3	03.D32.BG0.2	03.D32.EN1092.BG0.0
	DIN40	03.D40.BG0.0	03.D40.BG0.3	03.D40.BG0.2	03.D40.EN1092.BG0.0
	DIN50	03.D50.BG0.0	03.D50.BG0.3	03.D50.BG0.2	03.D50.EN1092.BG0.0
	DIN65	03.D65.BG0.0	03.D65.BG0.3	03.D65.BG0.2	03.D65.EN1092.BG0.0
ISO Abmessung ISO Dimension	ISO06	03.N06.BG0.0	03.N06.BG0.3	03.N06.BG0.2	03.N06.EN1092.BG0.0
	ISO08	03.N08.BG0.0	03.N08.BG0.3	03.N08.BG0.2	03.N08.EN1092.BG0.0
	ISO10	03.N10.BG0.0	03.N10.BG0.3	03.N10.BG0.2	03.N10.EN1092.BG0.0
	ISO15	03.N15.BG0.0	03.N15.BG0.3	03.N15.BG0.2	03.N15.EN1092.BG0.0
	ISO20	03.N20.BG0.0	03.N20.BG0.3	03.N20.BG0.2	03.N20.EN1092.BG0.0
	ISO25	03.N25.BG0.0	03.N25.BG0.3	03.N25.BG0.2	03.N25.EN1092.BG0.0
	ISO32	03.N32.BG0.0	03.N32.BG0.3	03.N32.BG0.2	03.N32.EN1092.BG0.0
	ISO40	03.N40.BG0.0	03.N40.BG0.3	03.N40.BG0.2	03.N40.EN1092.BG0.0
	ISO50	03.N50.BG0.0	03.N50.BG0.3	03.N50.BG0.2	03.N50.EN1092.BG0.0
	ISO65	03.N65.BG0.0	03.N65.BG0.3	03.N65.BG0.2	03.N65.EN1092.BG0.0
	ISO80	03.N80.BG0.0	03.N80.BG0.3	03.N80.BG0.2	03.N80.EN1092.BG0.0
OD Abmessung OD Dimension	OD1/4"	03.K02.BG0.0	03.K02.BG0.3	03.K02.BG0.2	03.K02.EN1092.BG0.0
	OD3/8"	03.K03.BG0.0	03.K03.BG0.3	03.K03.BG0.2	03.K03.EN1092.BG0.0
	OD1/2"	03.K05.BG0.0	03.K05.BG0.3	03.K05.BG0.2	03.K05.EN1092.BG0.0
	OD3/4"	03.K07.BG0.0	03.K07.BG0.3	03.K07.BG0.2	03.K07.EN1092.BG0.0
	OD1"	03.K10.BG0.0	03.K10.BG0.3	03.K10.BG0.2	03.K10.EN1092.BG0.0
	OD1 1/2"	03.K15.BG0.0	03.K15.BG0.3	03.K15.BG0.2	03.K15.EN1092.BG0.0
	OD2"	03.K20.BG0.0	03.K20.BG0.3	03.K20.BG0.2	03.K20.EN1092.BG0.0
	OD2 1/2"	03.K25.BG0.0	03.K25.BG0.3	03.K25.BG0.2	03.K25.EN1092.BG0.0
	OD3"	03.K30.BG0.0	03.K30.BG0.3	03.K30.BG0.2	03.K30.EN1092.BG0.0
	OD4"	03.K40.BG0.0	03.K40.BG0.3	03.K40.BG0.2	03.K40.EN1092.BG0.0

* bestehend aus:

- Borosilikatglas
- 2x Stützring
- 2x O-Ring

9 Spritzschutz 2-teilig zu bio-plus® Linienschauglas mit Schweissende nach DIN11866 (Teilsicht)
Splash guard 2-parts to bio-plus® Line Sight Glass with weld-end acc. DIN11866 (Partial View)

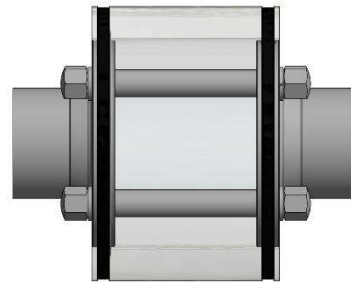
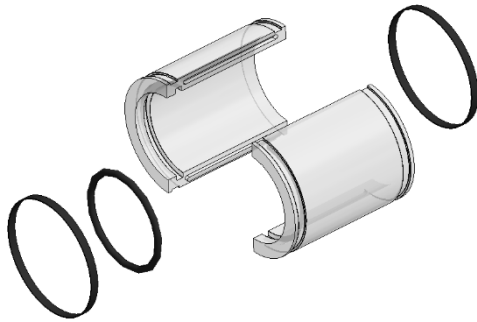


DIN Abmessung DIN Dimension		ISO Abmessung DIN Dimension		OD Abmessung DIN Dimension	
Größe Size	Artikel-Nr. Article-No.	Größe Size	Artikel-Nr. Article-No.	Größe Size	Artikel-Nr. Article-No.
DIN04	RDS.D04.SAF.PM			OD$\frac{1}{4}$"	RDS.K02.SAF.PM
DIN06	RDS.D06.SAF.PM	ISO06	RDS.N06.SAF.PM	OD$\frac{3}{8}$"	RDS.K03.SAF.PM
DIN08	RDS.D08.SAF.PM	ISO08	RDS.N08.SAF.PM	OD$\frac{1}{2}$"	RDS.K05.SAF.PM
DIN10	RDS.D10.SAF.PM	ISO10	RDS.N10.SAF.PM	OD$\frac{3}{4}$"	RDS.K07.SAF.PM
DIN15	RDS.D15.SAF.PM	ISO15	RDS.N15.SAF.PM	OD1"	RDS.K10.SAF.PM
DIN20	RDS.D20.SAF.PM	ISO20	RDS.N20.SAF.PM	OD1$\frac{1}{2}$"	RDS.K15.SAF.PM
DIN25	RDS.D25.SAF.PM	ISO25	RDS.N25.SAF.PM	OD2"	RDS.K20.SAF.PM
DIN32	RDS.D32.SAF.PM	ISO32	RDS.N32.SAF.PM	OD2$\frac{1}{2}$"	RDS.K25.SAF.PM
DIN40	RDS.D40.SAF.PM	ISO40	RDS.N40.SAF.PM	OD3"	RDS.K30.SAF.PM
DIN50	RDS.D50.SAF.PM	ISO50	RDS.N50.SAF.PM	OD4"	RDS.K40.SAF.PM
DIN65	RDS.D65.SAF.PM	ISO65	RDS.N65.SAF.PM		

* bestehend aus:

- Spritzschutz PMMA
- 2x Befestigungsband
- 1x Halte O-Ring

10 Spritzschutz 2-teilig zu bio-plus® Linienschauglas (Vollsicht) Splash guard 2-parts to bio-plus® Line Sight Glass (Full View)

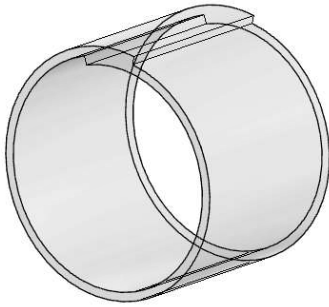


DIN Abmessung DIN Dimension		ISO Abmessung DIN Dimension		OD Abmessung DIN Dimension	
Größe Size	Artikel-Nr. Article-No.	Größe Size	Artikel-Nr. Article-No.	Größe Size	Artikel-Nr. Article-No.
DIN04	HAS.D04.SAF.PM			OD $\frac{1}{4}$ "	HAS.K02.SAF.PM
DIN06	HAS.D06.SAF.PM	ISO06	HAS.N06.SAF.PM	OD $\frac{3}{8}$ "	RDS.K03.SAF.PM
DIN08	HAS.D08.SAF.PM	ISO08	HAS.N08.SAF.PM	OD $\frac{1}{2}$ "	RDS.K05.SAF.PM
DIN10	HAS.D10.SAF.PM	ISO10	HAS.N10.SAF.PM	OD $\frac{3}{4}$ "	RDS.K07.SAF.PM
DIN15	HAS.D15.SAF.PM	ISO15	HAS.N15.SAF.PM	OD1"	RDS.K10.SAF.PM
DIN20	HAS.D20.SAF.PM	ISO20	HAS.N20.SAF.PM	OD1 $\frac{1}{2}$ "	RDS.K15.SAF.PM
DIN25	HAS.D25.SAF.PM	ISO25	HAS.N25.SAF.PM	OD2"	RDS.K20.SAF.PM
DIN32	HAS.D32.SAF.PM	ISO32	HAS.N32.SAF.PM	OD2 $\frac{1}{2}$ "	RDS.K25.SAF.PM
DIN40	HAS.D40.SAF.PM	ISO40	HAS.N40.SAF.PM	OD3"	RDS.K30.SAF.PM
DIN50	HAS.D50.SAF.PM	ISO50	HAS.N50.SAF.PM	OD4"	RDS.K40.SAF.PM
DIN65	HAS.D65.SAF.PM	ISO65	HAS.N65.SAF.PM	OD5"	RDS.K50.SAF.PM
DIN80	HAS.D80.SAF.PM	ISO80	HAS.N80.SAF.PM	OD6"	RDS.K60.SAF.PM
DIN100	HAS.D100.SAF.PM	ISO100	HAS.N100.SAF.PM		
DIN120	HAS.D125.SAF.PM	ISO125	HAS.N125.SAF.PM		
DIN150	HAS.D150.SAF.PM	ISO150	HAS.N150.SAF.PM		

* bestehend aus:

- Spritzschutz PMMA
- 2x Befestigungsband
- 1x Halte O-Ring

11 Schlagschutz 1-teilig zu bio-plus® Linienschauglas mit Schweissende nach DIN11866 (Teilsicht)
Impact guard 1-part to bio-plus® Line Sight Glass with weld-end acc. DIN11866 (Partial View)



DIN Abmessung DIN Dimension		ISO Abmessung DIN Dimension		OD Abmessung DIN Dimension	
Größe Size	Artikel-Nr. Article-No.	Größe Size	Artikel-Nr. Article-No.	Größe Size	Artikel-Nr. Article-No.
DIN04				OD $\frac{1}{4}$ "	
DIN06		ISO06		OD $\frac{3}{8}$ "	
DIN08		ISO08		OD $\frac{1}{2}$ "	
DIN10		ISO10		OD $\frac{3}{4}$ "	
DIN15		ISO15		OD1"	
DIN20		ISO20	7009.00163	OD1 $\frac{1}{2}$ "	
DIN25		ISO25		OD2"	
DIN32		ISO32		OD2 $\frac{1}{2}$ "	
DIN40		ISO40		OD3"	
DIN50		ISO50	7009.00791	OD4"	
DIN65		ISO65	7009.00637		

* bestehend aus:

- Schlagschutz PET
- 2x Befestigungsband

12 Bestellschlüssel Ordering Key

1. Artikel / Article

RD	Linien-schauglas mit Schweissende nach DIN11866 (Teilsicht) / Line Sight Glass with weld-end acc. DIN11866 (Partial View)
SA	Linien-schauglas mit Clamp Anschluss nach DIN32676 (Teilsicht) / Line Sight Glass with Clamp acc. DIN32676 (Partial View)
HA	Linien-schauglas mit Schweissende nach DIN11866 (Vollsicht) / Line Sight Glass with weld-end acc. DIN11866 (Full View)
HP	Linien-schauglas mit Clamp Anschluss nach DIN32676 (Vollsicht) / Line Sight Glass with Clamp acc. DIN32676 (Full View)
03	Ersatzteilset zu Linien-schauglas / Spare Part Set to Line Sight Glass

2. Norm / Standard

D	DIN Abmessung (Schweissende) / DIN dimension (weld-end)
N	ISO Abmessung (Schweissende) / ISO dimension (weld-end)
K	OD Abmessung (Schweissende) / OD dimension (weld-end)

2.1 Nennweite / Nominal Size

(siehe Rohranschluss-Tabelle 008 /
see table of pipe connections 008)

02	Nennweite DN02 / Nominal Size DN02
03	Nennweite DN03 / Nominal Size DN03
04	Nennweite DN04 / Nominal Size DN04
06	Nennweite DN06 / Nominal Size DN06
07	Nennweite DN07 / Nominal Size DN07
08	Nennweite DN08 / Nominal Size DN08
10	Nennweite DN10 / Nominal Size DN10
15	Nennweite DN15 / Nominal Size DN15
20	Nennweite DN20 / Nominal Size DN20
25	Nennweite DN25 / Nominal Size DN25
30	Nennweite DN30 / Nominal Size DN30
32	Nennweite DN32 / Nominal Size DN32
40	Nennweite DN40 / Nominal Size DN40
50	Nennweite DN50 / Nominal Size DN50
65	Nennweite DN65 / Nominal Size DN65
80	Nennweite DN80 / Nominal Size DN80
100	Nennweite DN100 / Nominal Size DN100

3. Material Glas/ Material Glass

BG0	Borosilikatglas (Standard) / Borosilicate Glass (Standard)
BG1	Borosilikatglas beschichtet / Borosilicate Glass coated

4. Material / Material

35	1.4435 BN2
39	1.4539
22	2.4602 (Hastelloy C22)

5. Dichtungsmaterial / Seal Material

0	EPDM
1	Silikon / Silicone
2	FKM
3	FEP (Silikonkern / Silicone Core)
5	FFKM

6. Oberfläche / Surface

C	Innenoberfläche Ra<0.6; electropoliert / Internal Surface Ra<0.6; electropolished
E	Innenoberfläche Ra<0.4; electropoliert / Internal Surface Ra<0.4; electropolished

weitere Oberflächen auf Anfrage / other surfaces on request

7. Option / Option

HP	Hochdruck Ausführung (nur mit Schweissenden lieferbar) / High-pressure version (only with weld-end available)
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Komplettbaugruppe Complete Assembly

Bestellbeispiel / Ordering example: **RD.N08.BG0.35.0.C**

RD	N08	BG0	35	0	C	-
1	2	3	4	5	6	7

13 Rohranschluss-Tabelle 008

Table of Pipe Connections 008

Nennweite Nominal Size	DIN 11866		
	Reihe A (DIN) Series A (DIN)	Reihe B (ISO) Series B (ISO)	Reihe C (OD) Series C (OD)
02			Ø6.35x0.89
03			Ø9.53x0.89
04	Ø6.00x1.00		
05			Ø12.70x1.65
06	Ø8.00x1.00	Ø10.20x1.60	
07			Ø19.05x1.65
08	Ø10.00x1.00	Ø13.50x1.60	
10	Ø13.00x1.50	Ø17.20x1.60	Ø25.40x1.65
15	Ø19.00x1.50	Ø21.30x1.60	Ø38.10x1.65
20	Ø23.00x1.50	Ø26.90x1.60	Ø50.80x1.65
25	Ø29.00x1.50	Ø33.70x2.00	Ø63.50x1.65
30			Ø76.20x1.65
32	Ø35.00x1.50	Ø42.40x2.00	
40	Ø41.00x1.50	Ø48.30x2.00	Ø101.60x2.11
50	Ø 53.00x1.50	Ø60.30x2.00	
60			Ø152.40x2.77
65	Ø 70.00x2.00	Ø76.10x2.00	
80	Ø 85.00x2.00	Ø88.90x2.30	Ø203.20x2.77
100	Ø 104.00x2.00	Ø114.30x2.30	

Maß- und Konstruktionsänderungen vorbehalten. Revisionsdatum: 10/24
Specifications and design are subject to change without notice. Date of revision: 10/24